

LUKOIL GEYSER A Grade 1

LUKOIL GEYSER A Grade 2

Hydraulic fluid to wellhead and pipeline valves, equipped with hydraulic drives

MEETS REQUIREMENTS

MIL-PRF-5606H

PRODUCT DESCRIPTION

LUKOIL GEYSER A Grade 1 and **LUKOIL GEYSER A Grade 2** are hydraulic fluids with excellent low temperature capabilities. The fluids are manufactured on a highly purified hydrocracking base stock with low pour point and with involvement of additive package providing required performance.

APPLICATION

Fluids **LUKOIL GEYSER A** are intended for use as working body in wellhead and pipeline valves, equipped with hydraulic drives, at low and extra-low ambient temperatures.

Depending on weather conditions it is recommended to use: **LUKOIL GEYSER A Grade 1** at ambient temperatures from minus 70 °C to 40 °C, **LUKOIL GEYSER A Grade 2** at ambient temperatures from minus 70 °C to 50 °C.

LUKOIL GEYSER A meets technical requirements to technical fluid based on a mineral row stock, which is intended for use in wellhead and pipeline valves, equipped with hydraulic drives, in PJSC "GAZPROM".

BENEFITS

- Excellent low-temperature fluidity
- Continuous and reliable operation in a wide temperature range
- High resistance to corrosion and foaming
- Excellent oxidative and thermal stability
- Excellent temperature-viscosity properties

It is possible to use the fluids instead of oils: PMS-20, PMS-20RK, PMS-20-Yugra, Nycolube 4020, Aeroshell Fluid 41, Gidronicol FH-51, AMG-10

The product name in an order:

Hydraulic fluid LUKOIL GEYSER A Grade 1, STO 79345251-085-2015

Hydraulic fluid LUKOIL GEYSER A Grade 2, STO 79345251-085-2015

TYPICAL TEST DATA

PROPERTY	Test methods	LUKOIL GEYSER A	
		Grade 1	Grade 2
Appearance		Homogeneous transparent red fluid	
Kinematic viscosity at 40 °C, mm ² /s	GOST 33 / ASTM D445 / GOST R 53708	2.85	14.11
Kinematic viscosity at 100 °C, mm ² /s	GOST 33 / ASTM D445 / GOST R 53708	-	5.42
Kinematic viscosity at -40 °C, mm ² /s	GOST 33 / ASTM D445 / GOST R 53708	75.56	380.7
Kinematic viscosity at -50 °C, mm ² /s	GOST 33 / ASTM D445 / GOST R 53708	197.7	981
Acid number, mg KOH/1 g oil	GOST 11362 / ASTM D664	0.015	0.015
Flash Point, COC, °C	GOST 4333 / ASTM D92	108	106
Pour Point, °C	GOST 20287 B	-72	-72
Water content, %	GOST 2477	nil	nil
Mechanical admixtures mass content, %	GOST 6370	nil	nil
Copper plate corrosion (M1 or M2 according GOST 859 at 100 °C during 3 h, group	GOST 2917 / ASTM D130	pass	pass
Cleanliness levels	GOST 17216 and GOST 31247	10	12
Foaming characteristics: tendency-stability, ml			
-at 24 °C	ASTM D892	30/0	30/0
-at 93,5 °C,		20/0	20/0
-at 24 °C after test at 93,5 °C		30/0	30/0
Tribological properties on four-ball machine:			
-Wear scar diameter ((20±5) °C, 196 N (20 kgf), 1 h), mm	GOST 9490	0.39	0.48
Oxidative-thermal stability and corrosiveness at 125°C during 100 h	GOST 20944		
-kinematic viscosity at 50°C after oxidation	-GOST 33	2.38	11.54
-acid number after oxidation	-GOST 5985	0.05	0.05
-weight corrosion index in metal plates testing	-GOST 20944	0.0003	0.0004
Density at 20°C, kg/m ³	GOST 3900 / ASTM D4052	845.2	854.9

The information given in the typical data does not constitute a specification but is an indication based on current production and can be affected by allowable production tolerances. The right to make modifications is reserved by OOO "LLK-International".